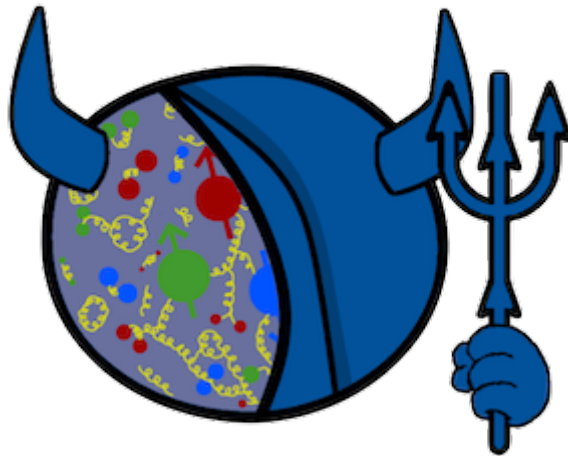


## **Session Program**

**Sep 24 - 29, 2023**



# **25th International Spin Symposium (SPIN 2023)**

## ***Fundamental Symmetries and Spin Physics Beyond the Standard Model***

Durham Convention Center

# Mon, September 25

2:00 PM

## Fundamental Symmetries and Spin Physics Beyond the Standard Model: Fundamental Symmetries I

Session | Location: Durham Convention Center, Grand Ballroom 2

14:00 - 14:20 **Selected results on the electric dipole moments from lattice QCD**

**Speaker**  
Andrea Shindler

14:20 - 14:25 **Discussion**

14:25 - 14:45

**Neutron Electric Dipole Moment from Isovector Quark Chromo-Electric Dipole Moment**

**Speaker**  
Jun-Sik Yoo

14:45 - 14:50 **Discussion**

14:50 - 15:10

**The neutron electric dipole moment search at Los Alamos National Laboratory**

**Speaker**  
Douglas Wong

15:10 - 15:15 **Discussion**

15:15 - 15:35

**Measurement of the deuteron electric dipole moment using a storage ring**

**Speaker**  
Vera Shmakova

15:35 - 15:40 **Discussion**

3:40 PM

4:00 PM

## Fundamental Symmetries and Spin Physics Beyond the Standard Model: Fundamental Symmetries II

Session | Location: Durham Convention Center, Grand Ballroom 2

16:00 - 16:20

**Transverse single-spin asymmetries as a probe of anomalous dipole moments**

**Speaker**  
Frank Petriello

16:20 - 16:25 **Discussion**

16:25 - 16:45

**Spin-Dependent Fifth-Force Search and Measurement of Compensated Ferrimagnetism in Terbium Iron Garnet using Neutron Spin Echo Spectroscopy and Neutron Radiography**

**Speaker**

Caleb Hughes

16:45 - 16:50

**Discussion**

16:50 - 17:10

**Helicity of Relic Neutrinos**

**Speaker**

Jen-Chieh Peng

17:10 - 17:15

**Discussion**

17:15 - 17:35

**Origin of spin in non-relativistic quantum physics**

**Speaker**

Kolahal Bhattacharya

17:35 - 17:40

**Discussion**

5:55 PM

## Tue, September 26

11:00 AM

### Fundamental Symmetries and Spin Physics Beyond the Standard Model: Fundamental Symmetries III

Session | Location: Durham Convention Center, Junior A3

11:00 - 11:20 **Baryon number-violating amplitudes on a lattice**

**Speaker**

Sergey Syritsyn

11:20 - 11:25 **Discussion**

11:25 - 11:45

**An Update To The First Search for Neutron to Mirror-Neutron Oscillations Using Neutron Electric Dipole Moment Measurements**

**Speaker**

Dr Prajwal MohanMurthy

11:45 - 11:50 **Discussion**

11:50 - 12:10 **Hadronic parity violation in few-nucleon systems**

**Speaker**

Matthias Schindler

12:10 - 12:15 **Discussion**

12:15 - 12:35 **Is there evidence of strong parity violation in the proton?**

**Speaker**

Matteo Cerutti

12:35 - 12:40 **Discussion**

12:40 PM

# Wed, September 27

9:00 AM

## Fundamental Symmetries and Spin Physics Beyond the Standard Model: Fundamental Symmetries IV

Session | Location: Durham Convention Center, Junior Ballroom A3

09:00 - 09:25

### High Precision Parity Experiments as a Probe for new Physics and Benchmark Measurements

**Speaker**

Prof. Michael Gericke

09:25 - 09:30

**Discussion**

09:30 - 09:50

### Update of the muon g-2 measurement at Fermilab

**Speaker**

Dinko Pocanic

09:50 - 09:55

**Discussion**

09:55 - 10:15

### Toward testing the magnetic moment of the tau at one part per million

**Speaker**

Michael Roney

10:15 - 10:20

**Discussion**

10:20 - 10:40

### Mu2e: Probing the Frontiers of Physics Using Muons

**Speaker**

Edmond Dukes

10:40 - 10:45

**Discussion**

10:45 AM